CUF - 2013 25en 12/03/2016

Q1. a) flow in fro:

$$E = \frac{h}{k} \frac{1}{x_{1} x_{2}} = \frac{1}{x_{1} x_{2} x_{3}} \ln \left(\frac{x_{2}}{x_{2}}\right) = \frac{1}{x_{1} x_{2} x_{3}} \ln \left(\frac{x_{2}}{x_{3}}\right) = \frac{1}{x_{1} x_{2} x_{3}} \ln \left(\frac{x_{2}}{x_{3}}\right)$$

$$V = \int_{0}^{1} \frac{h}{x_{1} x_{2} x_{3}} = \frac{h}{x_{1} x_{2} x_{3}} \ln \left(\frac{x_{2}}{x_{3}}\right) = \frac{1}{x_{1} x_{2} x_{3}} \ln \left(\frac{x_{2}}{x_{3}}\right)$$

$$V = \int_{0}^{1} \frac{h}{x_{1} x_{2} x_{3}} \ln \left(\frac{x_{2}}{x_{3}}\right) \ln \left(\frac{x_{2}}{x_{3}}\right) = \frac{1}{x_{1} x_{2} x_{3}} \ln \left(\frac{x_{2}}{x_{3}}\right)$$

$$V = \int_{0}^{1} \frac{h}{x_{1} x_{2} x_{3}} \ln \left(\frac{x_{2}}{x_{3}}\right) \ln \left(\frac{x_{2}}{x_{3}}\right) = \frac{1}{x_{2} x_{3}} \ln \left(\frac{x_{2}}{x_{3}}\right)$$

$$V = \int_{0}^{1} \frac{h}{x_{1} x_{2} x_{3}} \ln \left(\frac{x_{2}}{x_{3}}\right) \ln \left(\frac{x_{2}}{x_{3}}$$

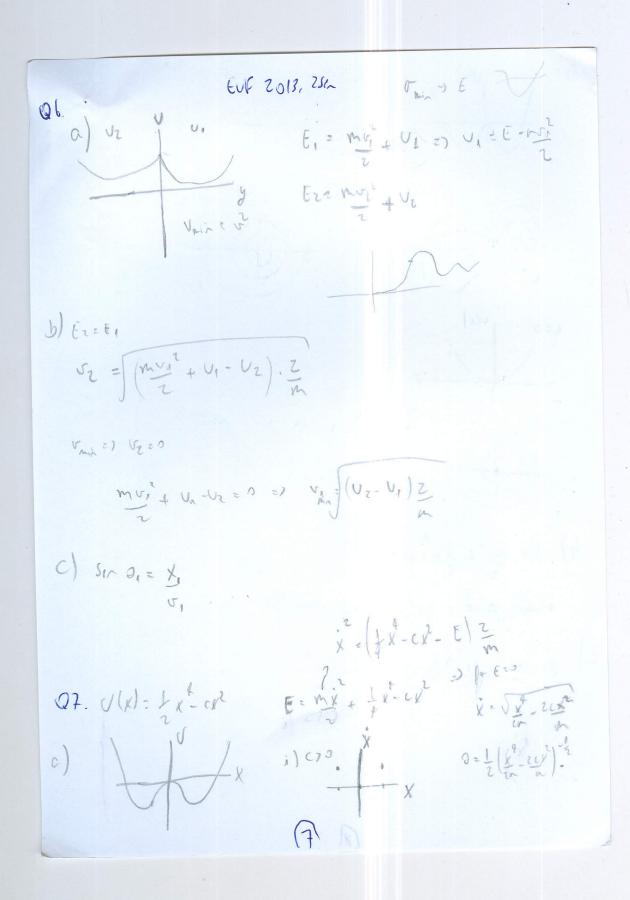
d) 
$$\int_{-\infty}^{\infty} \frac{\lambda c}{(a^{2}y^{2}z^{2})} dy = G_{1}^{2} c^{2}z^{2} = \frac{\lambda c}{\pi} \int_{-\infty}^{\infty} \frac{1}{a^{2}+y^{2}} dy = \frac{\lambda c}{\pi} (a^{2}y^{2}) \cdot (a^{2}x^{2})$$

$$= \frac{\lambda c}{\pi} (a^{2}y^{2}z^{2}) dy = \frac{\lambda c}{\pi} (a^{2}y^{2}) \cdot ($$

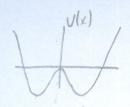
EUF 2013 - 25cm 13/03/2016 a) - t2 dyle) + { 2 4 2 4 (x) = E 4 (x) 4" + (mux+unt) 4=0 &= mu, )= zant E=xxx = 2"(E) + (xx - 22 ) + 100 4"(E)- E24(E) =0 for E-) to ( = (2) 4 = ( = () ( = + () + () = 0 41(E) + E4(W) =0 QS PAZZZPo a) Uz 3 NRT - 3PV, S = 3 PLAT + PL-V+C, isotropo 11:0 DS=RINAT+RINAVES OT=OV 3) NR=AR NR = 3180 X NRT = BV => NR CT = CPCV

41 126 1 TH 126 - 17 0250 3 RINGT + RL OV = C AT: OPAV Insize In av. c In (57 2.00) = C B Vezvo + Avo b) A 3 5 = 13 V3 V; 240 Vd. (328)3= 80 Vos 11=3280 VQ = Vo 2235 VI = Vo C) A NRToz Povo NETP: 9100 (2-13) NRIP = 32 Po . Vo 7 = 76.325 d) dv = 60 - 610

[6]

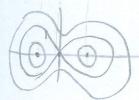


C70

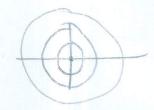


CEO





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(co vik)



b) E= my + fx - cx

slugg produg que crales o parto fix o

c) E= mot + [x =) v2=ZE - [x]
m 2m

1363 08 (= avp) \*(p.t)= 12 + (p.t) 4(p.1) = 1 (20t) 3/ (32 e 20) 2(1) = 1 (2012 / 29 e pr/4 +(p) id ( = 3 et 4/p) = = { (2 et) } = { (23p exp(iff). [22-c52] 4(p) V: 2 = ) do : 2 + = ) f. t. ex(it) - | Et ex[it] dr dre explose vel duel is uplace). It evet ex lift ove ( b) exter) 是文文学》· 是·(学)·ex/等)

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o) 
$$[5x, 5y] = 5x sy - 5y sy = \frac{12}{2} \begin{pmatrix} 0.12 \\ 0.13 \end{pmatrix} - \frac{11}{2} \begin{pmatrix} 0$$

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